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Analysis of Daily Reports of Practical Training in Pharmacology using Text Mining

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ABSTRACT: The text mining and full-text searching function were used to analyze the digitalized daily reports of the Practical Training in Pharmacology submitted to the Web system in Fukuyama University. Collocations connected to the word "inspection" were searched in the daily reports using the text mining and the full-text search functions of the system. Many collocation groups connected to "inspection" were found in the daily reports and the greatest number of collocations was associated with "preparation of drugs". Practical training in narcotic dispensing has two different aspects: inspection and experience training. The number of people who reported a relation between "inspection" and "narcotics dispensing" in the daily reports was very similar to those who reported a connection between "experience" and "narcotics". Practical training to handle narcotic dispensing is the most fundamental training that the pharmacist must undertake. The progression of team-based medical care has caused medical personnel to recognize the practical training in pharmacology, and the number of the people who reported a relation between "inspection" and "team medical care" in 2011 increased in comparison to 2010. Moreover, the progression of cooperation among hospitals, pharmacies, and local branches of the Japan Pharmaceutical Association is beneficial to practical training. Practical training in pharmacology is based on the core curriculum, but undergoes periodic modification due to societal circumstances. Therefore, these results suggest that the construction of Web system for submitting daily reports is useful for analyzing the daily reports.

抄録 実習生、指導薬剤師、大学教員間の情報共有や実習生の評価に用いられる実務実習日誌から、実務実習の「見学」に関する評価を試みた。実習日誌に記載された見学内容は実務実習モデル・コアカリキュラムに記載されており、実務実習が学習方略に沿って実施されたことが確認できた。「見学」と最も関連が強い共起語は、平成22年度と平成23年度ともに薬剤師の基本業務に関する共起語「服薬」、「病棟」、「指導」であった。その他に「カンファレンス」「NST」に代表される「チーム医療」に関する共起語群や、「在宅」「医療」などの地域医療に関する共起語群が得られた。チーム医療や地域医療の推進という社会的要請が実務実習に反映されていた。